ACM Transactions on Graphics

Volume 12 • 1993

Editor-in-Chief	Jim Foley	
Interactive Techniques Notebook Editor	Dan R. Olsen, Jr.	
Associate Editors	Anthony D. DeRose	Jarek Rossignac
	David P. Dobkin	John Sibert
	Pat Hanrahan	Robert F. Sproull
	Martii Mäntylä	Maureen C. Stone
	Gregory M. Nielson	Jane Wilhelms
	David Rosenthal	

Published by the Association for Computing Machinery

Copyright © 1993 Association for Computing Machinery, Inc.,
1515 Broadway, New York, NY 10036

Volume 12 • 1993

1992 **Author Index.** Vol. 12, No. 1 (Jan. 1993), 109–110.

108 **Corrigendum.** Vol. 12, No. 1 (Jan. 1993), 108.

Research Contributions

327 **Bajaj, C., Ihm, I.,** and **Warren, J.** Higher-Order Interpolation and Least-Squares Approximation Using Implicit Algebraic Surfaces. Vol. 12, No. 4 (Oct. 1993), 327–347.

179 **Bartels, R. H., Beatty, J. C., Booth, K. S., Bosch, E. G.,** and **Jolicoeur, P.** Experimental Comparison of Splines Using the Shape-Matching Paradigm. Vol. 12, No. 3 (July 1993), 179–208.

103 **Barzel, R.** See Salesin, D. Vol. 12, No. 1 (Jan. 1993), 103–107.

179 **Beatty, J. C.** See Bartels, R. H. Vol. 12, No. 3 (July 1993), 179–208.

56 **Bernardini, F.** See Paoluzzi, A. Vol. 12, No. 1 (Jan. 1993), 56–102.

179 **Booth, K. S.** See Bartels, R. H. Vol. 12, No. 3 (July 1993), 179–208.

179 **Bosch, E. G.** See Bartels, R. H. Vol. 12, No. 3 (July 1993), 179–208.

56 **Cattani, C.** See Paoluzzi, A. Vol. 12, No. 1 (Jan. 1993), 56–102.

305 **Chen, L.-L., Chou, S.-Y.,** and **Woo, T. C.** Separating and Intersecting Spherical Polygons: Computing Machinability on Three-, Four-, and Five-Axis Numerically Controlled Machines. Vol. 12, No. 4 (Oct. 1993), 305–326.

305 **Chou, S.-Y.** See Chen, L.-L. Vol. 12, No. 4 (Oct. 1993), 305–326.

160 **Cohen, E.** See Elber, G. Vol. 12, No. 2 (April 1993), 160–178.

113 **DeRose, T. D., Goldman, R. N., Hagen, H.,** and **Mann, S.** Functional Composition Algorithms via Blossoming. Vol. 12, No. 2 (April 1993), 113–135.

160 **Elber, G.,** and **Cohen, E.** Second-Order Surface Analysis Using Symbolic and Numeric Operators. Vol. 12, No. 2 (April 1993), 160–178.

277 **Feiner, S.** See Kurlander, D. Vol. 12, No. 4 (Oct. 1993), 277–304.

251 **Fellner, D. W.,** and **Helmberg, C.** Robust Rendering of General Ellipses and Elliptical Arcs. Vol. 12, No. 3 (July 1993), 251–276.

56 **Ferrucci, V.** See Paoluzzi, A. Vol. 12, No. 1 (Jan. 1993), 56–102.

136 **Geist, R., Reynolds, R.,** and **Suggs, D.** A Markovian Framework for Digital Halftoning. Vol. 12, No. 2 (April 1993), 136–159.

113 **Goldman, R. N.** See DeRose, T. D. Vol. 12, No. 2 (April 1993), 113–135.

113 **Hagen, H.** See DeRose, T. D. Vol. 12, No. 2 (April 1993), 113–135.

251 **Helmberg, C.** See Fellner, D. W. Vol. 12, No. 3 (July 1993), 251–276.

327 **Ihm, I.** See Bajaj, C. Vol. 12, No. 4 (Oct. 1993), 327–347.

179 **Jolicoeur, P.** See Bartels, R. H. Vol. 12, No. 3 (July 1993), 179–208.

277 **Kurlander, D.,** and **Feiner, S.** Inferring Constraints from Multiple Snapshots. Vol. 12, No. 4 (Oct. 1993), 277–304.

233 **Malzbender, T.** Fourier Volume Rendering. Vol. 12, No. 3 (July 1993), 233–250.

113 **Mann, S.** See DeRose, T. D. Vol. 12, No. 2 (April 1993), 113–135.

209 **Paluszny, M.,** and **Patterson, R. R.** A Family of Tangent Continuous Cubic Algebraic Splines. Vol. 12, No. 3 (July 1993), 209–232.

56 **Paoluzzi, A., Bernardini, F., Cattani, C.,** and **Ferrucci, V.** Dimension-Independent Modeling with Simplicial Complexes. Vol. 12, No. 1 (Jan. 1993), 56–102.

209 **Patterson, R. R.** See Paluszny, M. Vol. 12, No. 3 (Sept. 1993), 209–232.

348 **Rappoport, A.,** and **von Emmerik, M.** User-Interface Devices for Rapid and Exact Number Specification. Vol. 12, No. 4 (Oct. 1993), 348–354.

136 **Reynolds, R.** See Geist, R. Vol. 12, No. 2 (April 1993), 136–159.

103 **Salesin, D.,** and **Barzel, R.** Adjustable Tools: An Object-Oriented Interaction Metaphor. Vol. 12, No. 1 (Jan. 1993), 103–107.

1 **Seidel, H.-P.** Polar Forms for Geometrically Continuous Spline Curves of Arbitrary Degree. Vol. 12, No. 1 (Jan. 1993), 1–34.

35 **Shapiro, V.,** and **Vossler, D. L.** Separation for Boundary to CSG Conversion. Vol. 12, No. 1 (Jan. 1993), 35–55.

136 **Suggs, D.** See Geist, R. Vol. 12, No. 2 (April 1993), 136–159.

348 **van Emmerik, M.** See Rappoport, A. Vol. 12, No. 4 (Oct. 1993), 348–354.

35 **Vossler, D. L.** See Shapiro, V. Vol. 12, No. 1 (Jan. 1993), 35–55.

327 **Warren, J.** See Bajaj, C. Vol. 12, No. 4 (Oct. 1993), 327–347.

305 **Woo, T. C.** See Chen, L.-L. Vol. 12, No. 4 (Oct. 1993), 305–326.